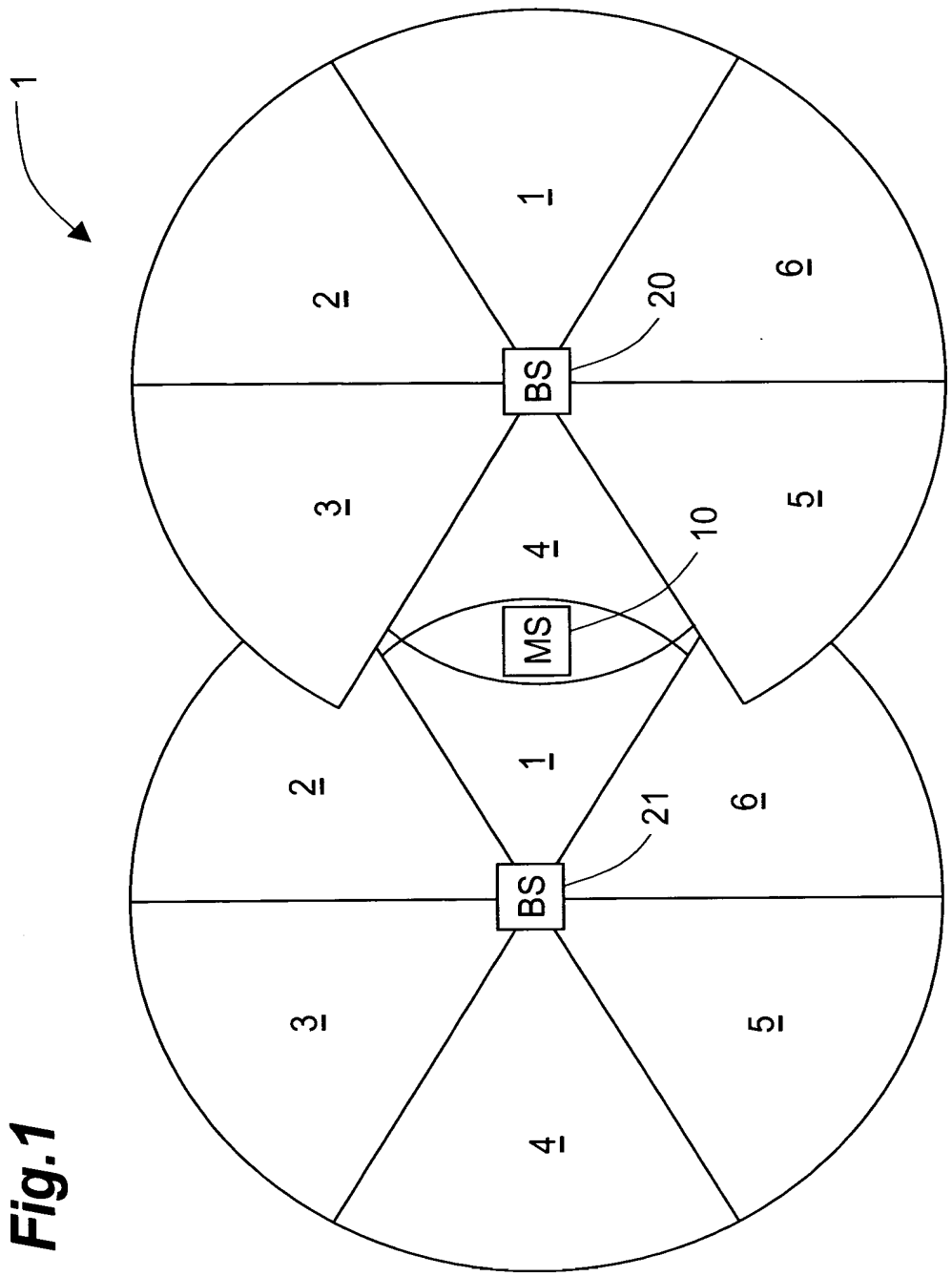



Fig.1

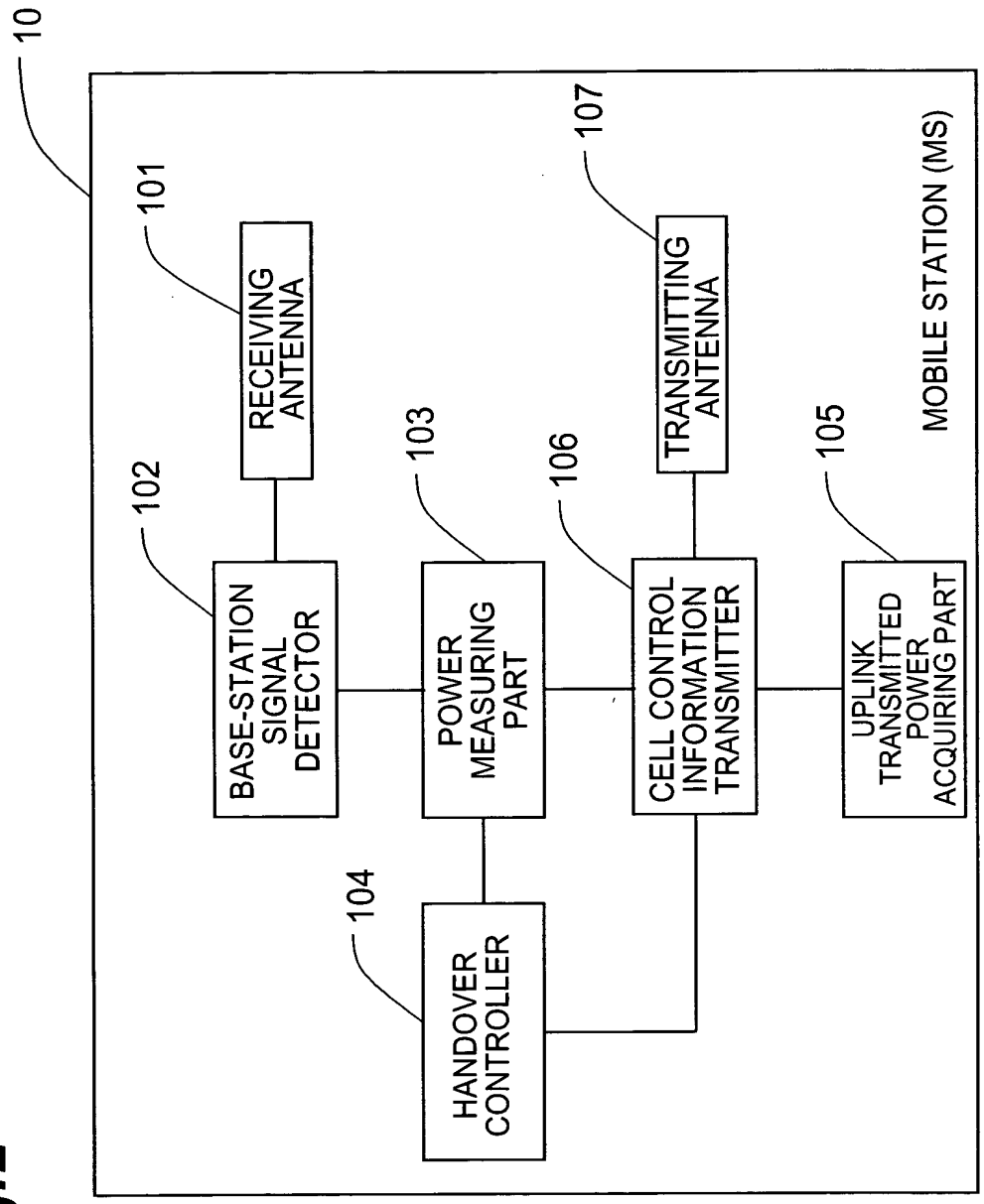

10
MOBILE STATION (MS)
101
RECEIVING ANTENNA
102
BASE-STATION SIGNAL DETECTOR
103
POWER MEASURING PART
104
HANDOVER CONTROLLER
105
UPLINK TRANSMITTED POWER ACQUIRING PART
106
CELL CONTROL INFORMATION TRANSMITTER
107
TRANSMITTING ANTENNA

Fig.2

*Fig.3A*

| BASE STATION IDENTIFIER | CELL IDENTIFIER |
|---|---|
| 1 | 4 |

*Fig.3B*

| BASE STATION IDENTIFIER | CELL IDENTIFIER |
|---|---|
| 2 | 1 |

*Fig.4*

| DESTINATION MOBILE STATION IDENTIFIER | NOTIFICATION INFORMATION |
|---|---|
| EVERY MS | END OF CHANGE |

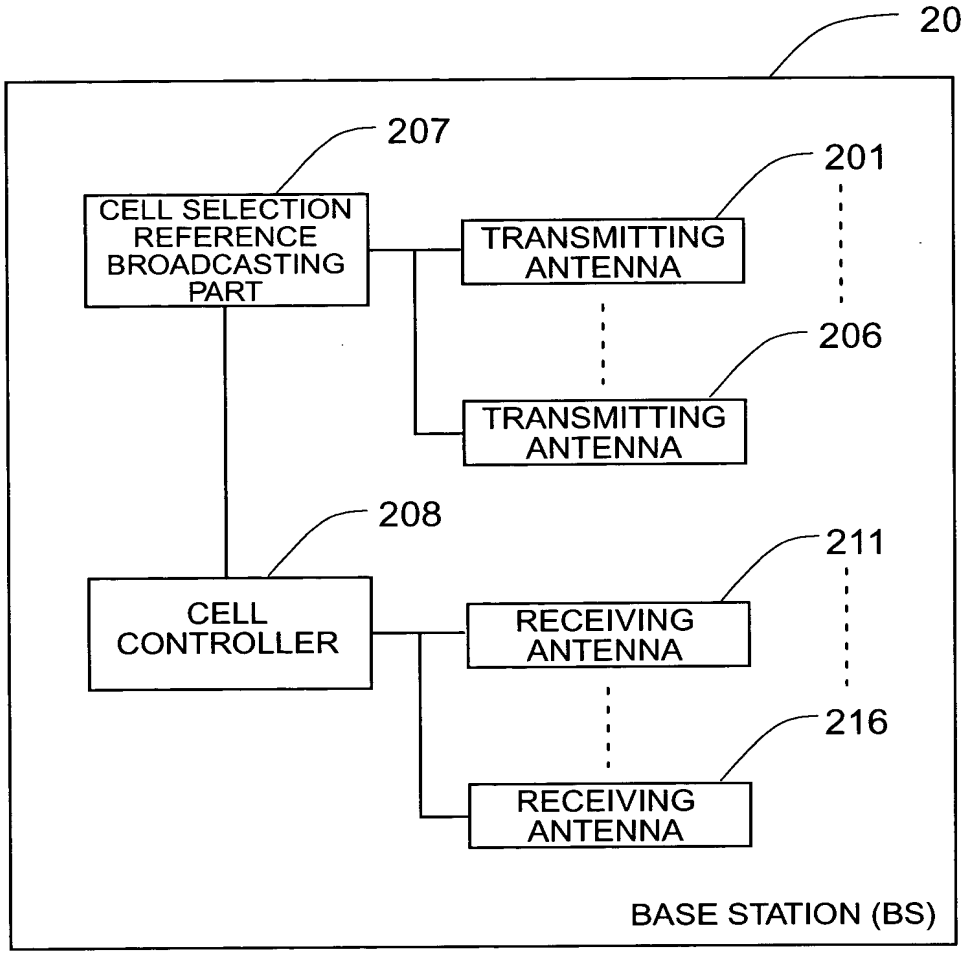
*Fig.5A*

| BASE STATION IDENTIFIER | CELL IDENTIFIER INFORMATION | DESTINATION BS UPLINK TRANSMITTED POWER VALUE | OTHER BS UPLINK TRANSMITTED POWER VALUE | CELL SELECTION REFERENCE RECEIVED POWER VALUE |
|---|---|---|---|---|
| 1 | 4 | P1 | P2 | R1 |

*Fig.5B*

| BASE STATION IDENTIFIER | CELL IDENTIFIER INFORMATION | DESTINATION BS UPLINK TRANSMITTED POWER VALUE | OTHER BS UPLINK TRANSMITTED POWER VALUE | CELL SELECTION REFERENCE RECEIVED POWER VALUE |
|---|---|---|---|---|
| 2 | 1 | P2 | P1 | R2 |

*Fig.6*


20
207
201
CELL SELECTION REFERENCE BROADCASTING PART
TRANSMITTING ANTENNA
206
TRANSMITTING ANTENNA
208
211
CELL CONTROLLER
RECEIVING ANTENNA
216
RECEIVING ANTENNA
BASE STATION (BS)

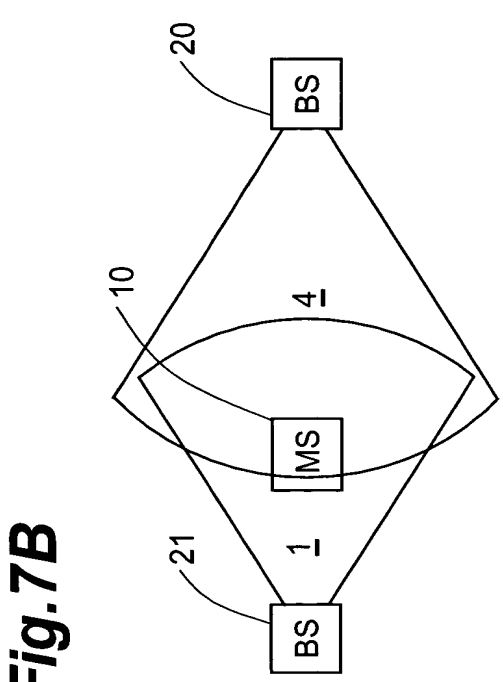



Fig.7B

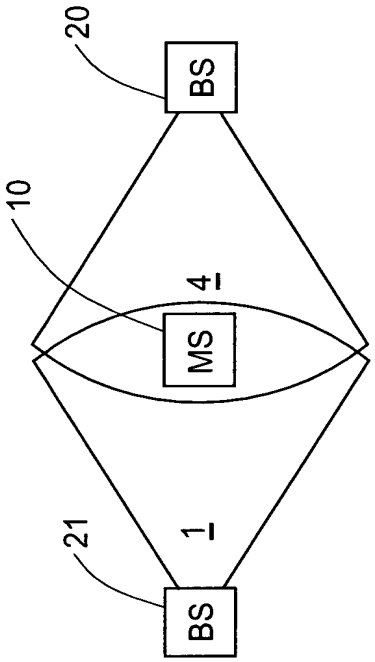



Fig.7D

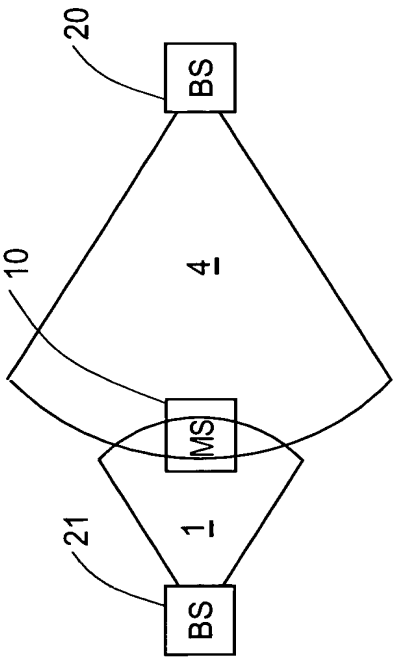



Fig.7A

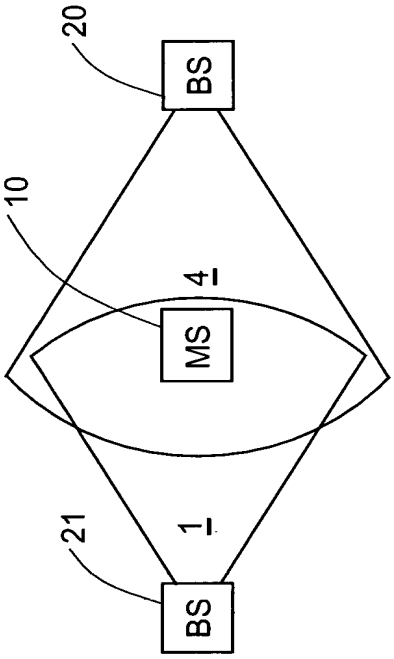



Fig.7C

*Fig.8*

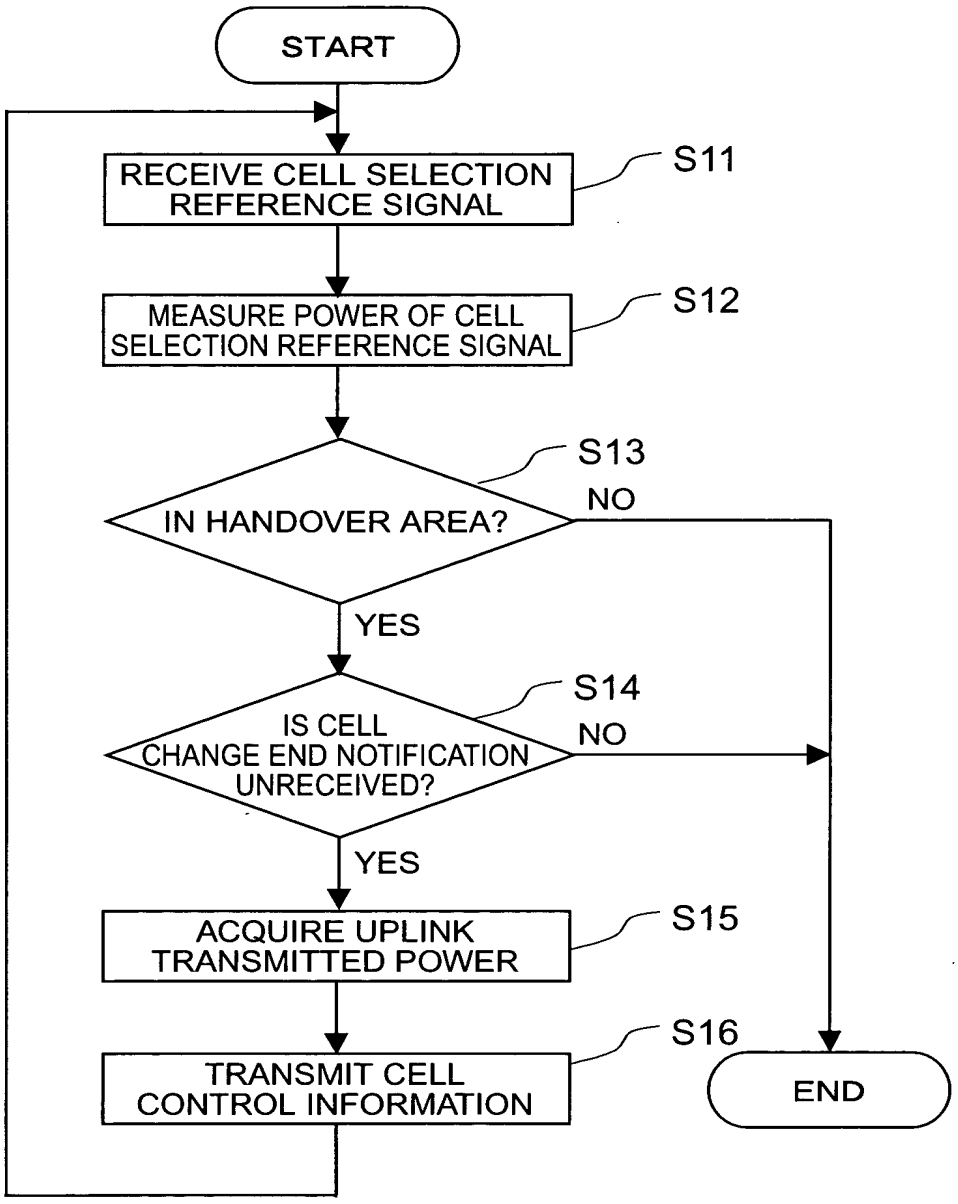

START
RECEIVE CELL SELECTION REFERENCE SIGNAL
S11
MEASURE POWER OF CELL SELECTION REFERENCE SIGNAL
S12
IN HANDOVER AREA?
S13
NO
YES
IS CELL CHANGE END NOTIFICATION UNRECEIVED?
S14
NO
YES
ACQUIRE UPLINK TRANSMITTED POWER
S15
TRANSMIT CELL CONTROL INFORMATION
S16
END

*Fig.9*

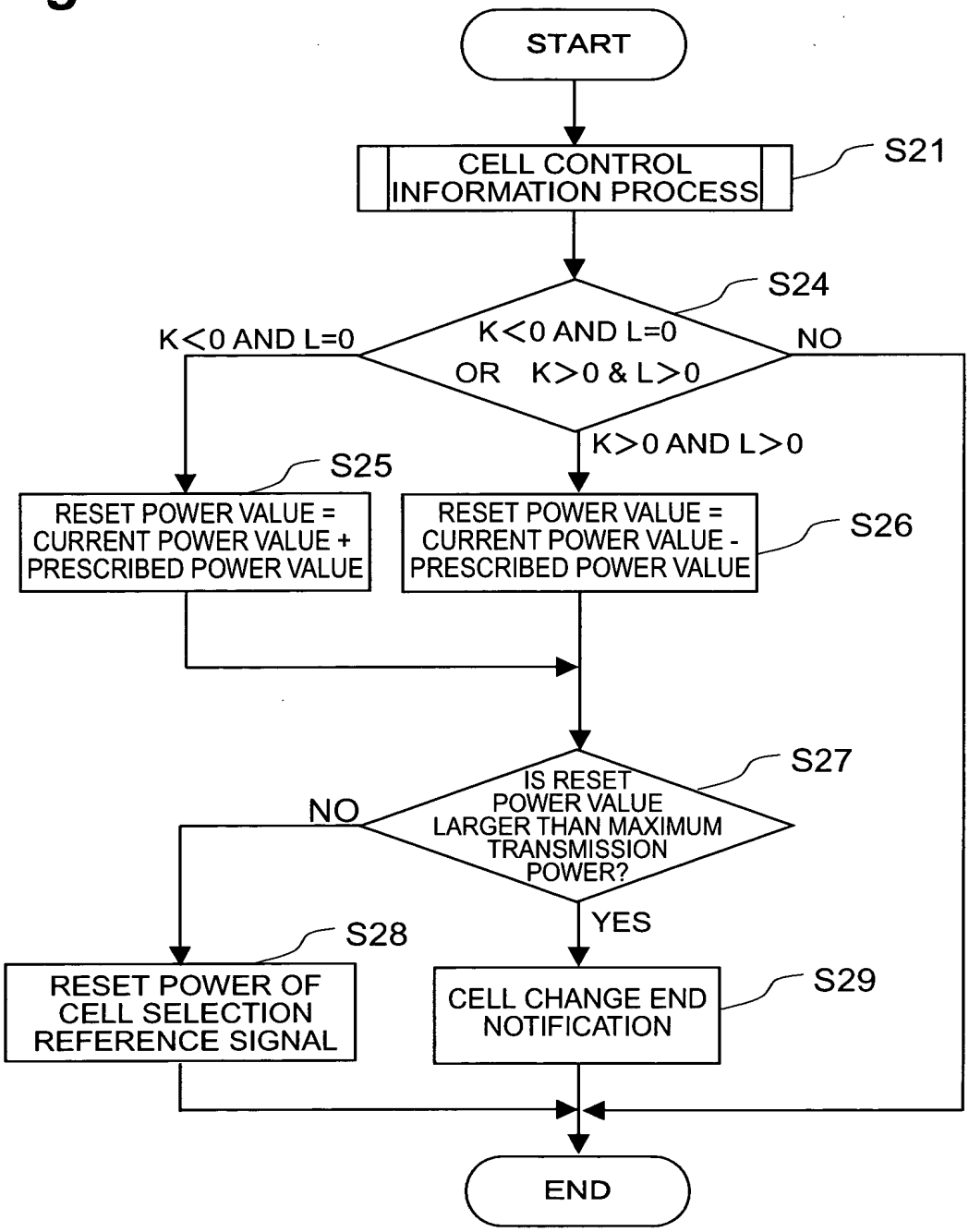
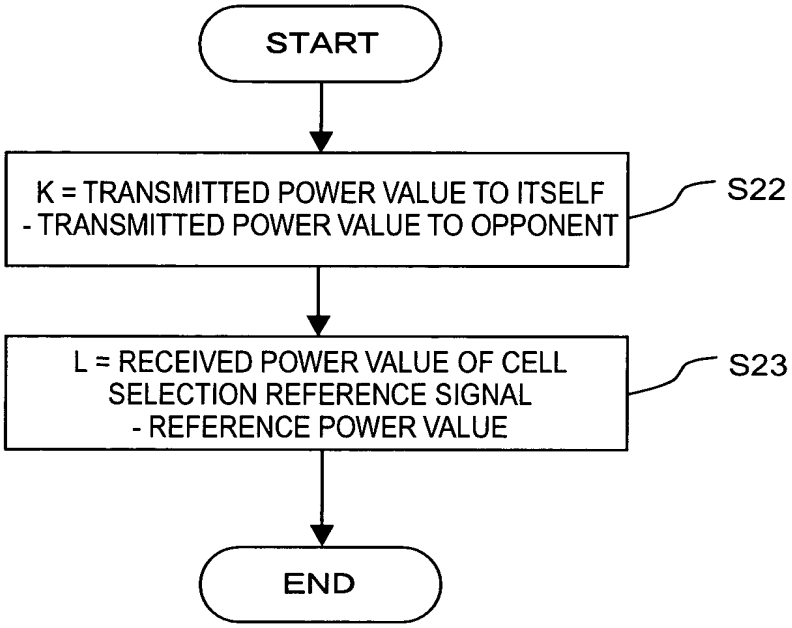

START
CELL CONTROL INFORMATION PROCESS
S21
S24
K<0 AND L=0 OR K>0 & L>0
K<0 AND L=0
NO
K>0 AND L>0
S25
RESET POWER VALUE = CURRENT POWER VALUE + PRESCRIBED POWER VALUE
RESET POWER VALUE = CURRENT POWER VALUE - PRESCRIBED POWER VALUE
S26
S27
IS RESET POWER VALUE LARGER THAN MAXIMUM TRANSMISSION POWER?
NO
YES
S28
RESET POWER OF CELL SELECTION REFERENCE SIGNAL
CELL CHANGE END NOTIFICATION
S29
END

*Fig.10*


START
K = TRANSMITTED POWER VALUE TO ITSELF
- TRANSMITTED POWER VALUE TO OPPONENT
S22
L = RECEIVED POWER VALUE OF CELL
SELECTION REFERENCE SIGNAL
- REFERENCE POWER VALUE
S23
END

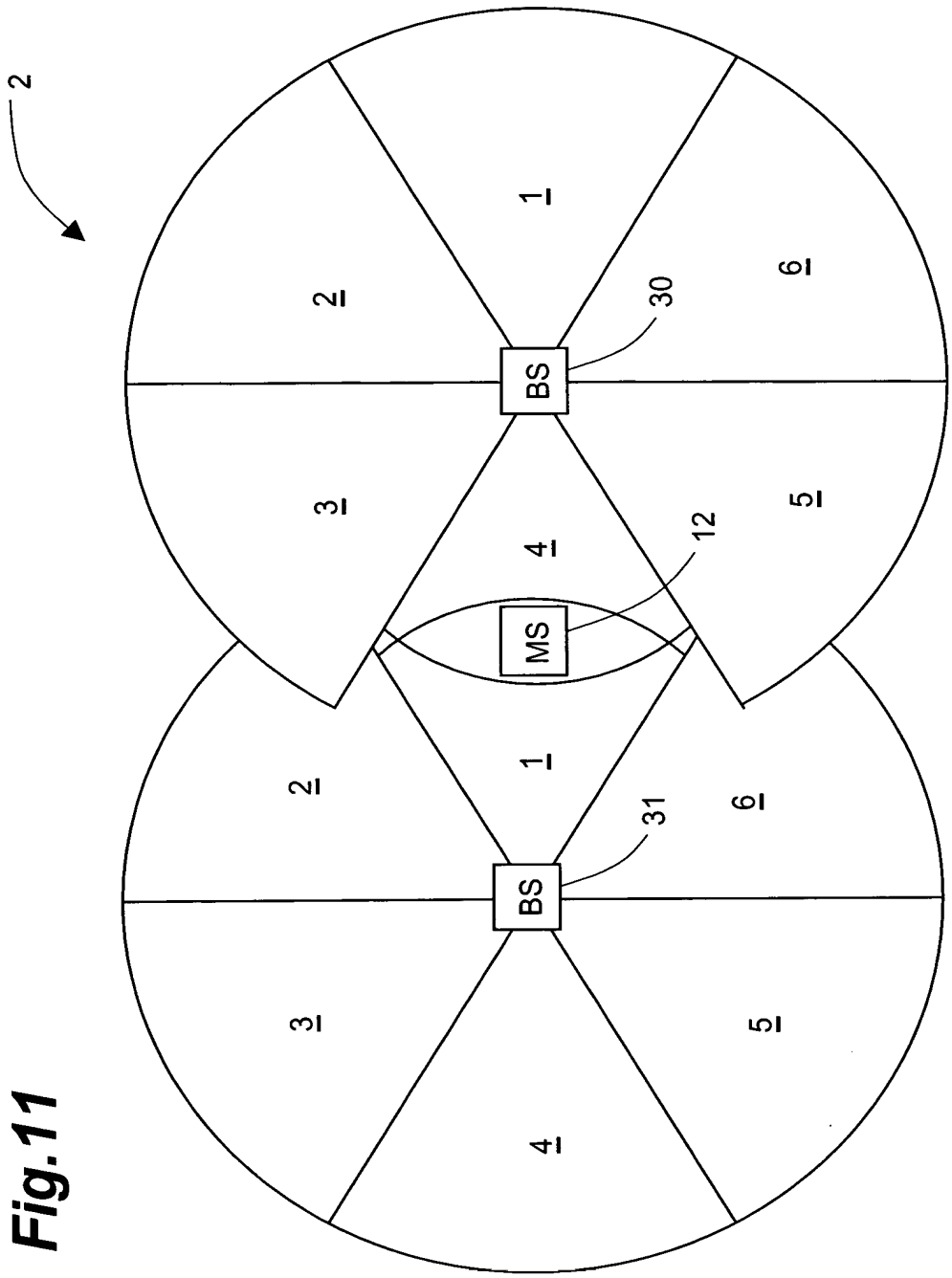



Fig.11

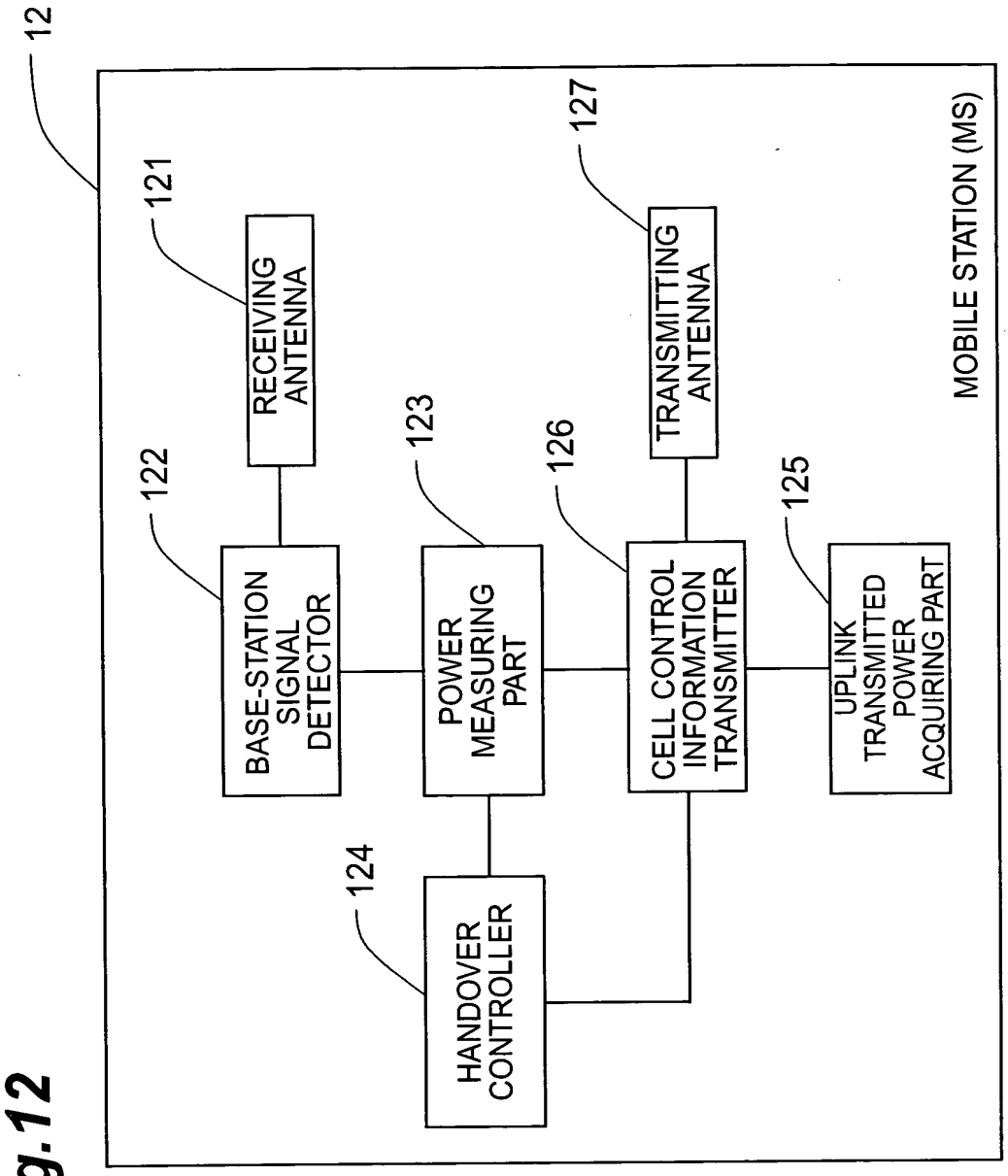

12
MOBILE STATION (MS)
121
RECEIVING ANTENNA
127
TRANSMITTING ANTENNA
122
BASE-STATION SIGNAL DETECTOR
123
POWER MEASURING PART
126
CELL CONTROL INFORMATION TRANSMITTER
125
UPLINK TRANSMITTED POWER ACQUIRING PART
124
HANDOVER CONTROLLER

Fig.12

*Fig.13*

| BASE STATION IDENTIFIER | CELL IDENTIFIER INFORMATION | CELL CHANGE INFORMATION |
|---|---|---|
| 1 | 4 | INCREASE |

*Fig.14*

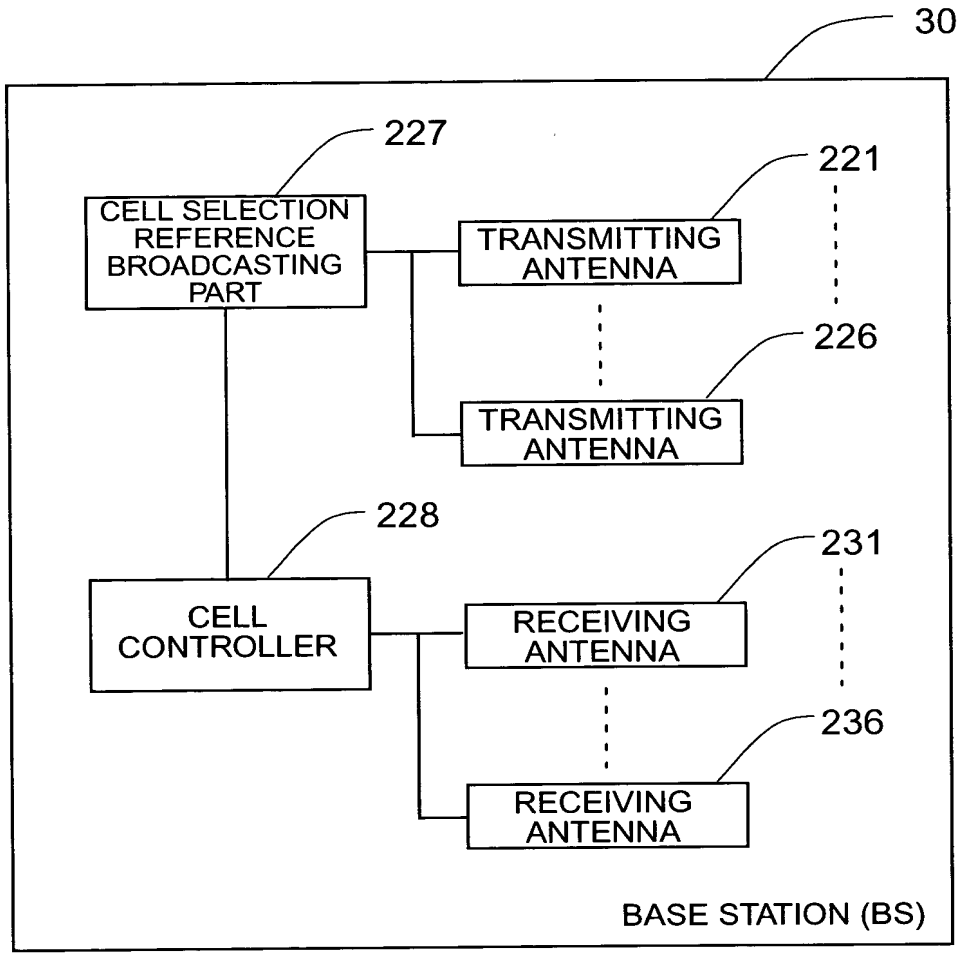

30
227
221
CELL SELECTION REFERENCE BROADCASTING PART
TRANSMITTING ANTENNA
226
TRANSMITTING ANTENNA
228
231
CELL CONTROLLER
RECEIVING ANTENNA
236
RECEIVING ANTENNA
BASE STATION (BS)

**Fig.15**

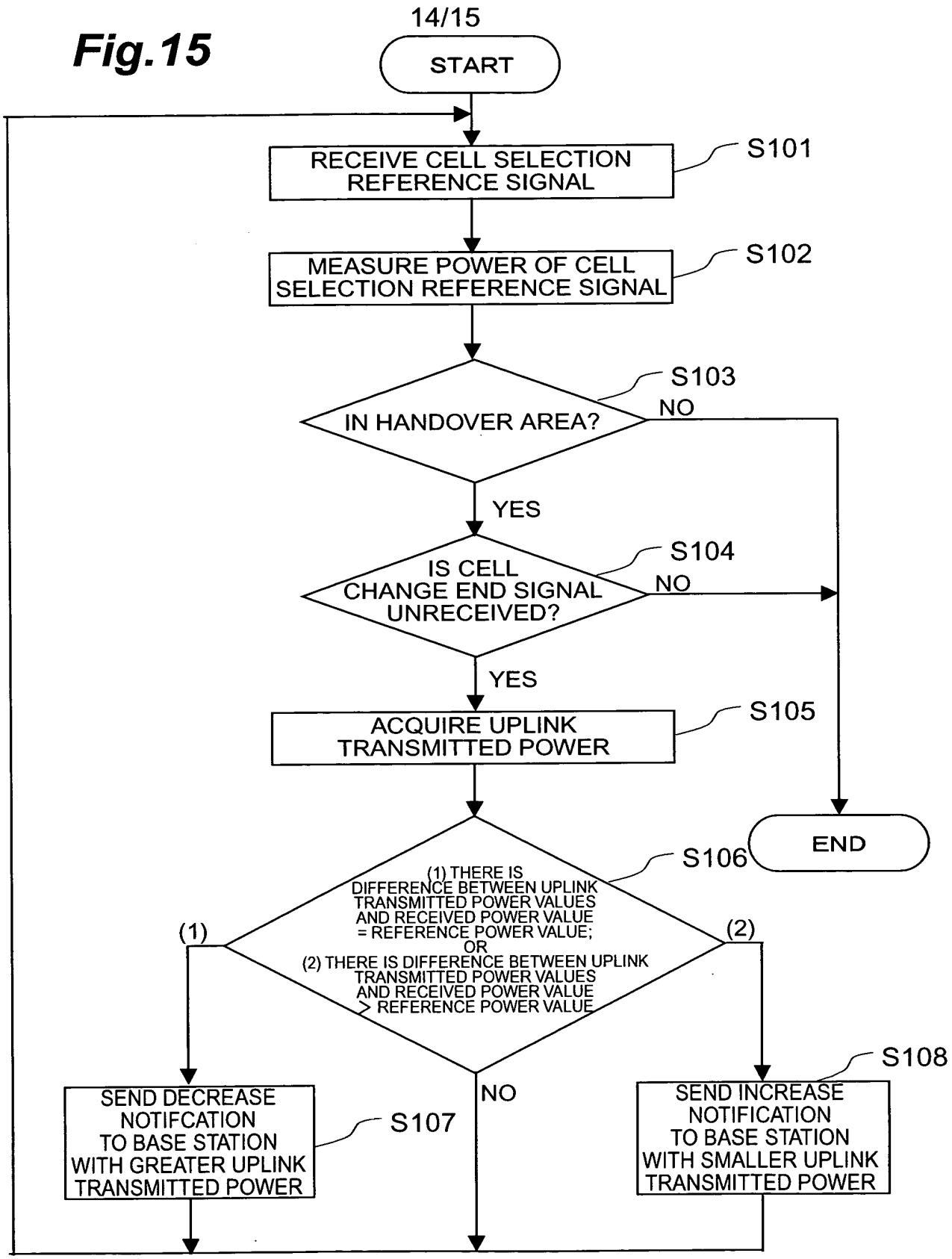
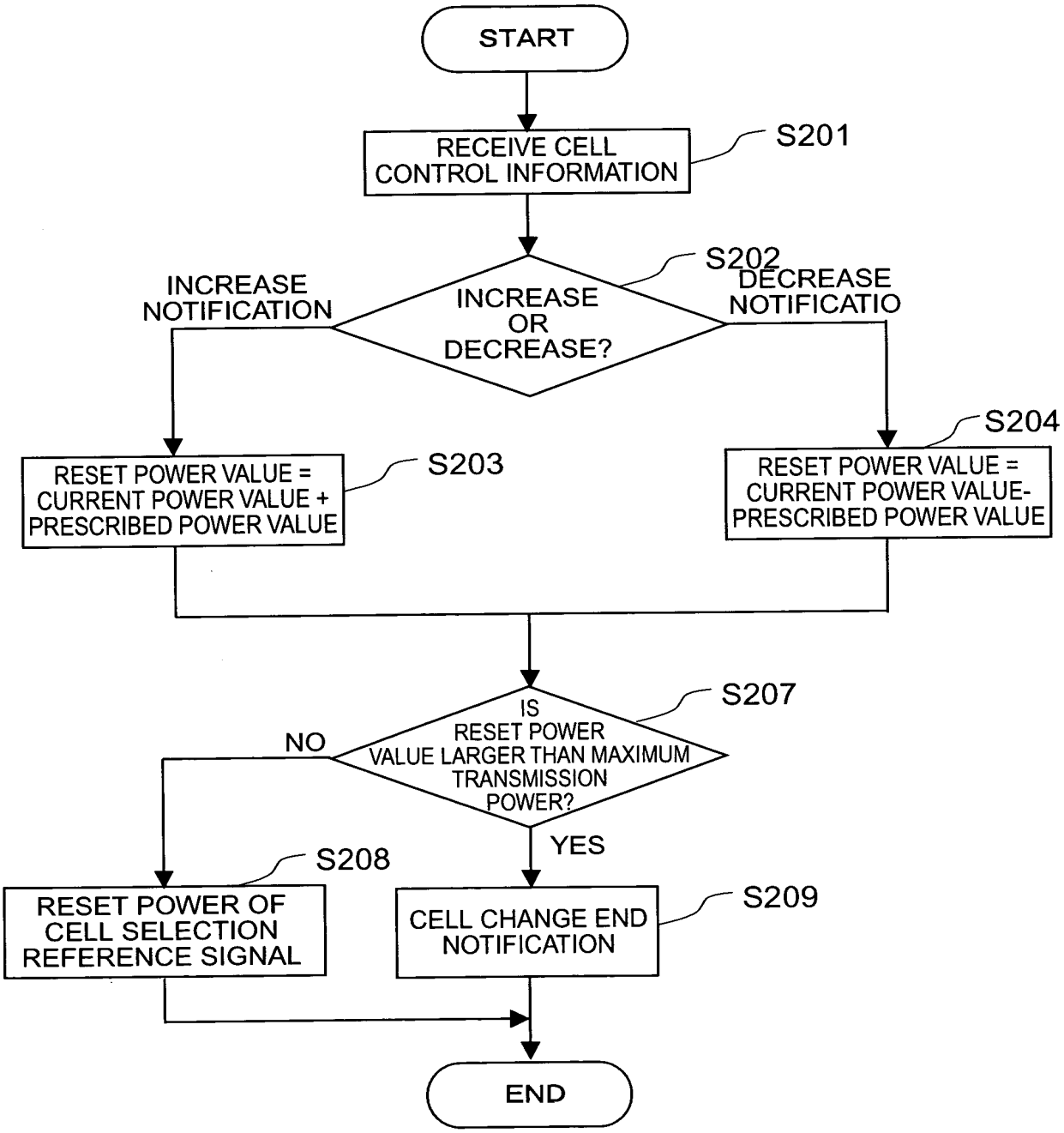

START
RECEIVE CELL SELECTION REFERENCE SIGNAL
S101
MEASURE POWER OF CELL SELECTION REFERENCE SIGNAL
S102
IN HANDOVER AREA?
S103
NO
YES
IS CELL CHANGE END SIGNAL UNRECEIVED?
S104
NO
YES
ACQUIRE UPLINK TRANSMITTED POWER
S105
END
(1) THERE IS DIFFERENCE BETWEEN UPLINK TRANSMITTED POWER VALUES AND RECEIVED POWER VALUE = REFERENCE POWER VALUE; OR (2) THERE IS DIFFERENCE BETWEEN UPLINK TRANSMITTED POWER VALUES AND RECEIVED POWER VALUE > REFERENCE POWER VALUE
S106
(1)
(2)
SEND DECREASE NOTIFCATION TO BASE STATION WITH GREATER UPLINK TRANSMITTED POWER
S107
NO
SEND INCREASE NOTIFICATION TO BASE STATION WITH SMALLER UPLINK TRANSMITTED POWER
S108

*Fig.16*


START
RECEIVE CELL CONTROL INFORMATION
S201
INCREASE OR DECREASE?
S202
INCREASE NOTIFICATION
DECREASE NOTIFICATIO
RESET POWER VALUE = CURRENT POWER VALUE + PRESCRIBED POWER VALUE
S203
RESET POWER VALUE = CURRENT POWER VALUE- PRESCRIBED POWER VALUE
S204
IS RESET POWER VALUE LARGER THAN MAXIMUM TRANSMISSION POWER?
S207
NO
YES
RESET POWER OF CELL SELECTION REFERENCE SIGNAL
S208
CELL CHANGE END NOTIFICATION
S209
END